

- 2 -

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Amendments to the Claims

The listing of claims will replace all prior versions and listing of claims in the application:

Listing of Claims:

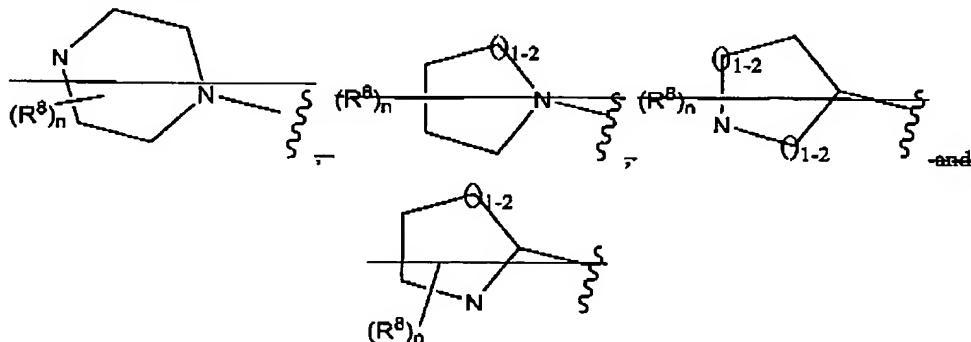
Claim 1 (currently amended): A compound represented by the structural formula



Formula III

wherein:

R is selected from the group consisting of alkyl, CF_3 , heteroaryl, heteroarylalkyl, cycloalkyl, cycloalkylalkyl, heterocyclyl, heterocyclylalkyl, arylalkyl, and $-\text{C}(\text{O})\text{R}^7$,



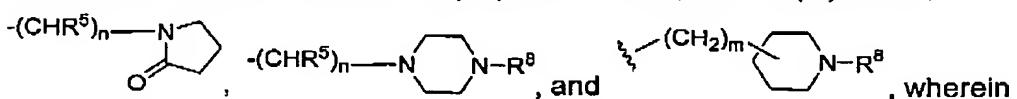
wherein each of said alkyl, heteroaryl, arylalkyl, and cycloalkyl, heterocyclyl and the heterocyclyl moieties whose structures are shown immediately above for R can be unsubstituted or optionally independently substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of halogen, alkyl, cycloalkyl, CF_3 , CN , $-\text{OCF}_3$, $-\text{OR}^6$, $-\text{C}(\text{O})\text{R}^7$, $-\text{NR}^5\text{R}^6$, $-\text{C}(\text{O}_2)\text{R}^6$, $-\text{C}(\text{O})\text{NR}^5\text{R}^6$, $-(\text{CHR}^5)_n\text{OR}^6$, $-\text{SR}^6$, $-\text{S}(\text{O}_2)\text{R}^7$, $-\text{S}(\text{O}_2)\text{NR}^5\text{R}^6$, $-\text{N}(\text{R}^5)\text{S}(\text{O}_2)\text{R}^7$, $-\text{N}(\text{R}^5)\text{C}(\text{O})\text{R}^7$ and $-\text{N}(\text{R}^5)\text{C}(\text{O})\text{NR}^5\text{R}^6$;

R^1 is H, halogen or alkyl;

R^2 is selected from the group consisting of H, halogen, CN, cycloalkyl, heterocyclyl, alkynyl and $-\text{CF}_3$;

- 3 -

R^3 is selected from the group consisting of aryl (with the exception of phenyl), heteroaryl (with the exception of furyl), heterocyclyl, $-(CHR^5)_n$ -heteroaryl, $-S(O_2)R^6$, $-C(O)R^6$, $-S(O_2)NR^5R^6$, $-C(O)OR^6$, $-C(O)NR^5R^6$,



each of said aryl, heteroaryl and heterocyclyl can be unsubstituted or optionally substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of halogen, alkyl, aryl, cycloalkyl, CF_3 , CN , $-OCF_3$, $-OR^5$, $-NR^5R^6$, $-C(O_2)R^5$, $-C(O)NR^5R^6$, $-SR^6$, $-S(O_2)R^6$, $-S(O_2)NR^5R^6$, $-N(R^5)S(O_2)R^7$, $-N(R^5)C(O)R^7$ and $-N(R^5)C(O)NR^5R^6$, with the proviso that when R^3 is $-(CHR^5)_n$ -heteroaryl, R^2 can additionally be alkyl;

R^5 is H or alkyl;

R^6 is selected from the group consisting of H, alkyl, aryl, heteroaryl, arylalkyl and heteroarylalkyl, wherein each of said alkyl, heteroarylalkyl, aryl, heteroaryl and arylalkyl can be unsubstituted or optionally substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of halogen, alkyl, aryl, cycloalkyl, CF_3 , OCF_3 , CN , $-OR^5$, $-NR^5R^6$, $-CH_2OR^5$, $-C(O_2)R^5$, $-C(O)NR^5R^6$, $-SR^6$, $-S(O_2)R^7$, $-S(O_2)NR^5R^6$, $-N(R^5)S(O_2)R^7$, $-N(R^5)C(O)R^7$ and $-N(R^5)C(O)NR^5R^6$;

R^7 is selected from the group consisting of alkyl, aryl, heteroaryl, arylalkyl and heteroarylalkyl, wherein each of said alkyl, heteroarylalkyl, aryl, heteroaryl and arylalkyl can be unsubstituted or optionally substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of halogen, alkyl, aryl, cycloalkyl, CF_3 , OCF_3 , CN , $-OR^5$, $-NR^5R^6$, $-CH_2OR^5$, $-C(O_2)R^5$, $-C(O)NR^5R^6$, $-SR^6$, $-S(O_2)R^7$, $-S(O_2)NR^5R^6$, $-N(R^5)S(O_2)R^7$, $-N(R^5)C(O)R^7$ and $-N(R^5)C(O)NR^5R^6$;

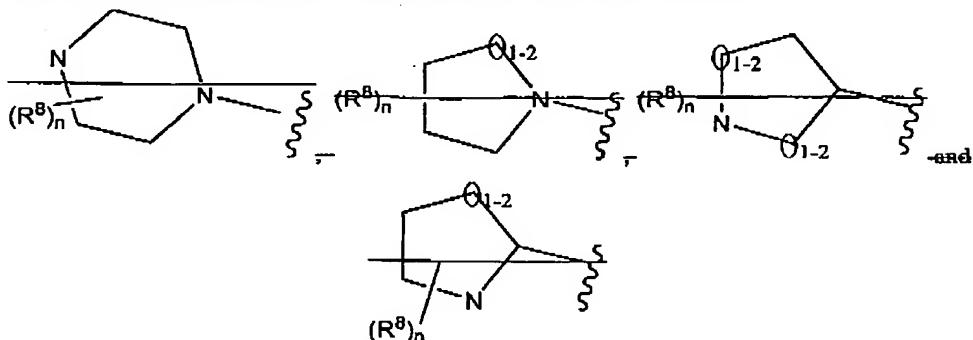
R^8 is selected from the group consisting of R^6 , $-C(O)NR^5R^6$, $-S(O_2)NR^5R^6$, $-C(O)R^7$, $-C(O_2)R^6$, $-S(O_2)R^7$ and $-(CH_2)$ -aryl;

m is 0 to 4; and

n is 1-4.

- 4 -

Claim 2 (currently amended): The compound of claim 1, wherein R is selected from the group consisting of alkyl, heteroarylalkyl, cycloalkyl, cycloalkylalkyl, heterocyclyl, heterocyclylalkyl, and arylalkyl,

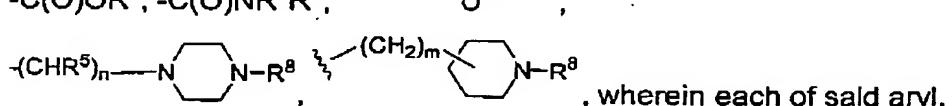


wherein each of said alkyl, heteroaryl, cycloalkyl, and arylalkyl, heterocyclyl and the heterocyclyl moieties shown above for R can be unsubstituted or optionally independently substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of halogen, alkyl, cycloalkyl, CF₃, CN, -OCF₃, -OR⁶, -C(O)R⁷, -NR⁵R⁶, -C(O₂)R⁶, -C(O)NR⁵R⁶, -SR⁶, -S(O₂)R⁷, -S(O₂)NR⁵R⁶, -N(R⁵)S(O₂)R⁷, -N(R⁵)C(O)R⁷ and -N(R⁵)C(O)NR⁵R⁶.

R¹ is H or halogen;

R² is selected from the group consisting of H, halogen, cycloalkyl, CN, alkynyl and -CF₃;

R³ is selected from the group consisting of aryl, heteroaryl, heterocyclyl, -(CHR⁵)_n-heteroaryl, -S(O₂)R⁶, -C(O)R⁶, -S(O₂)NR⁵R⁶,



, where each of said aryl, heteroaryl and heterocyclyl can be unsubstituted or optionally substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of halogen, alkyl, aryl, cycloalkyl, CF₃, CN, -OCF₃, -N(R⁵)C(O)R⁷, -C(O)NR⁵R⁶, -S(O₂)R⁶, and -N(R⁵)C(O)R⁷;

R⁵ is H or lower alkyl;

m is 0 to 2; and

- 5 -

n is 1 to 3.

Claim 3 (original): The compound of claim 2, wherein R is alkyl, arylalkyl or cycloalkylalkyl.

Claim 4 (original): The compound of claim 3, wherein R is selected from the group consisting of methyl, ethyl, t-butyl, cyclohexylmethyl, benzyl and phenethyl.

Claim 5 (original): The compound of claim 2, wherein R¹ is H.

Claim 6 (original): The compound of claim 2, wherein R¹ is methyl.

Claim 7 (original): The compound of claim 2, wherein R² is H, F, Cl, Br or I.

Claim 8 (original): The compound of claim 7, wherein R² is Br.

Claim 9 (original): The compound of claim 8, wherein R³ is (pyrid-2-yl)methyl, (pyrid-3-yl)methyl, (pyrid-4-yl)methyl, thien-2-yl or thien-3-yl, wherein said pyridyl and thienyl can be unsubstituted or optionally independently substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of F, Cl, Br, CF₃, lower alkyl, methoxy and CN.

Claim 10 (original): The compound of claim 9, wherein R³ is (pyrid-2-yl)methyl.

Claim 11 (original): The compound of claim 9, wherein R³ is (pyrid-3-yl)methyl.

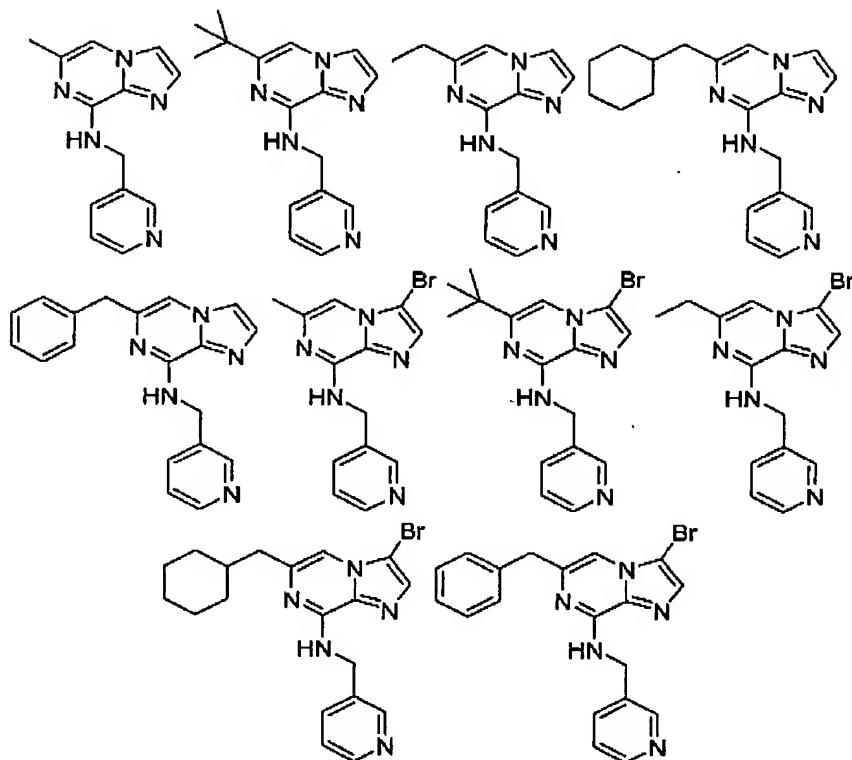
Claim 12 (original): The compound of claim 9, wherein R³ is (pyrid-4-yl)methyl.

Claim 13 (original): The compound of claim 2, wherein m is 0.

Claim 14 (original): The compound of claim 2, wherein n is 1.

Claim 15 (original): A compound of the formula:

- 6 -



or a pharmaceutically acceptable salt or solvate thereof.

Claim 16 (original): A method of inhibiting one or more cyclin dependent kinases, comprising administering a therapeutically effective amount of at least one compound of claim 1 to a patient in need of such inhibition.

Claim 17 (original): A method of treating one or more diseases associated with cyclin dependent kinase, comprising administering a therapeutically effective amount of at least one compound of claim 1 to a patient in need of such treatment.

Claim 18 (original): The method of claim 17, wherein said cyclin dependent kinase is CDK2.

Claim 19 (original): The method of claim 17, wherein said cyclin dependent kinase is mitogen activated protein kinase (MAPK/ERK).

Claim 20 (original): The method of claim 17, wherein said cyclin dependent kinase is glycogen synthase kinase 3 (GSK3 β).

Claim 21 (original): The method of claim 17, wherein said disease is selected from the group consisting of:

- 7 -

cancer of the bladder, breast, colon, kidney, liver, lung, small cell lung cancer, esophagus, gall bladder, ovary, pancreas, stomach, cervix, thyroid, prostate, and skin, including squamous cell carcinoma;

leukemia, acute lymphocytic leukemia, acute lymphoblastic leukemia, B-cell lymphoma, T-cell lymphoma, Hodgkins lymphoma, non-Hodgkins lymphoma, hairy cell lymphoma and Burkett's lymphoma;

acute and chronic myelogenous leukemia, myelodysplastic syndrome and promyelocytic leukemia;

fibrosarcoma, rhabdomyosarcoma;

astrocytoma, neuroblastoma, glioma and schwannomas; melanoma, seminoma, teratocarcinoma, osteosarcoma, xenoderoma pigmentosum, keratoctanthoma, thyroid follicular cancer and Kaposi's sarcoma.

Claim 22 (original): A method of treating one or more diseases associated with cyclin dependent kinase, comprising administering to a mammal in need of such treatment

an amount of a first compound, which is a compound of claim 1, or a pharmaceutically acceptable salt or solvate thereof;
and

an amount of at least one second compound, said second compound being an anti-cancer agent;

wherein the amounts of the first compound and said second compound result in a therapeutic effect.

Claim 23 (original): The method of claim 22, further comprising radiation therapy.

Claim 24 (original): The method of claim 22, wherein said anti-cancer agent is selected from the group consisting of a cytostatic agent, cisplatin, doxorubicin, taxotere, taxol, etoposide, CPT-11, irinotecan, camptostar, topotecan, paclitaxel, docetaxel, epothilones, tamoxifen, 5-fluorouracil, methotrexate, 5FU, temozolomide, cyclophosphamide, SCH 66336, R115777, L778,123, BMS 214662, Iressa, Tarceva, antibodies to EGFR, Gleevec, intron, ara-C, adriamycin, cytoxan, gemcitabine, Uracil mustard, Chlormethine, Ifosfamide, Melphalan, Chlorambucil, Pipobroman, Triethylenemelamine, Triethylenethiophosphoramine, Busulfan, Carmustine, Lomustine,

- 8 -

Streptozocin, Dacarbazine, Flouxuridine, Cytarabine, 6-Mercaptopurine,
6-Thioguanine, Fludarabine phosphate, oxaliplatin, leucovirin, ELOXATIN™,
Pentostatine, Vinblastine, Vincristine, Vindesine, Bleomycin, Dactinomycin,
Daunorubicin, Doxorubicin, Epirubicin, Idarubicin, Mithramycin,
Deoxycoformycin, Mitomycin-C, L-Asparaginase, Teniposide 17 α -
Ethinylestradiol, Diethylstilbestrol, Testosterone, Prednisone,
Fluoxymesterone, Dromostanolone propionate, Testolactone,
Megestrolacetate, Methylprednisolone, Methyltestosterone, Prednisolone,
Triamcinolone, Chlorotrianisene, Hydroxyprogesterone, Aminoglutethimide,
Estramustine, Medroxyprogesteroneacetate, Leuprolide, Flutamide,
Toremifene, goserelin, Cisplatin, Carboplatin, Hydroxyurea, Amsacrine,
Procarbazine, Mitotane, Mitoxantrone, Levamisole, Navelbene, CPT-11,
Anastrazole, Letrazole, Capecitabine, Reloxafine, Droloxafine, or
Hexamethylmelamine.

Claim 25 (original): A pharmaceutical composition comprising a therapeutically effective amount of at least one compound of claim 1 in combination with at least one pharmaceutically acceptable carrier.

Claim 26 (original): The pharmaceutical composition of claim 25, additionally comprising one or more anti-cancer agents selected from the group consisting of a cytostatic agent, cisplatin, doxorubicin, taxotere, taxol, etoposide, CPT-11, irinotecan, camptostar, topotecan, paclitaxel, docetaxel, epothilones, tamoxifen, 5-fluorouracil, methotrexate, 5FU, temozolomide, cyclophosphamide, SCH 66336, R115777, L778,123, BMS 214662, Iressa, Tarceva, antibodies to EGFR, Gleevec, intron, ara-C, adriamycin, cytoxan, gemcitabine, Uracil mustard, Chlormethine, Ifosfamide, Melphalan, Chlorambucil, Pipobroman, Triethylenemelamine, Triethylenethiophosphoramine, Busulfan, Carmustine, Lomustine, Streptozocin, Dacarbazine, Flouxuridine, Cytarabine, 6-Mercaptopurine, 6-Thioguanine, Fludarabine phosphate, Pentostatine, Vinblastine, Vincristine, Vindesine, Bleomycin, Dactinomycin, Daunorubicin, Doxorubicin, Epirubicin, Idarubicin, Mithramycin, Deoxycoformycin, Mitomycin-C, L-Asparaginase, Teniposide 17 α -Ethinylestradiol, Diethylstilbestrol, Testosterone, Prednisone, Fluoxymesterone, Dromostanolone propionate, Testolactone,

- 9 -

Megestrolacetate, Methylprednisolone, Methyltestosterone, Prednisolone, Triamcinolone, Chlorotrianisene, Hydroxyprogesterone, Aminoglutethimide, Estramustine, Medroxyprogesteroneacetate, Leuprolide, Flutamide, Toremifene, goserelin, Cisplatin, Carboplatin, Hydroxyurea, Amsacrine, Procarbazine, Mitotane, Mitoxantrone, Levamisole, Navelbene, CPT-11, Anastrazole, Letrazole, Capecitabine, Reloxafine, Droloxafine, or Hexamethylmelamine.

Claim 27 (original): A compound of claim 1 in purified form.